

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-12 (canceled).

13. (New) A low-pressure spray module for spray cleaning a component, comprising:

a receiver tank for holding a flushing medium, wherein an inlet side of the receiver tank is pressurized using compressed air from a compressed air source;

a spray lance for pressurized spraying of the component using the flushing medium, wherein the spray lance is connected to an outlet side of the receiver tank;

a collection tank positioned for collecting contaminant-particles-containing flushing medium after the pressurized spraying of the component; and

an analysis filter coupled to an outflow side of the collection tank, wherein the contaminant-particles-containing flushing medium is extracted from the collection tank through the outflow side using a vacuum pump, whereby the analysis filter performs filtering of contaminant particles from the contaminant-particles-containing flushing medium, and wherein the analysis filter collects the contaminant particles for later analysis.

14. (New) The low-pressure spray module as recited in Claim 13, wherein the spray lance is interchangeably attached to the receiver tank.

15. (New) The low-pressure spray module as recited in Claim 13, wherein a compressed air supply line leading from the compressed air source to the receiver tank transmits the compressed air, wherein the compressed air supply line has a first valve for at least one of regulating and setting of the pressure of the compressed air.

16. (New) The low-pressure spray module as recited in Claim 14, wherein a compressed air supply line leading from the compressed air source to the receiver tank transmits the compressed air, wherein the compressed air supply line has a first valve for at least one of regulating and setting of the pressure of the compressed air.

17. (New) The low-pressure spray module as recited in Claim 15, further comprising:

a pre-filter for the flushing medium, wherein the pre-filter is positioned between the receiver tank and the spray lance.

18. (New) The low-pressure spray module as recited in Claim 17, further comprising:

a second valve for at least one of regulating and setting one of the pressure and the volume of the flushing medium transmitted to the spray lance, wherein the second valve is positioned between the pre-filter and the receiver tank.

19. (New) The low-pressure spray module as recited in Claim 13, wherein the spray lance is connected to a metering valve.

20. (New) A method for low-pressure spray cleaning and residual contaminant analysis of a component, comprising:

a) providing a receiver tank filled with a flushing medium;

b) pressurizing the receiver tank on an inlet side using compressed air from a compressed air source;

c) transmitting the flushing medium from the pressurized receiver tank to a spray lance;

d) spray cleaning the component by spraying the flushing medium from the spray lance;

e) collecting contaminant-particles-containing flushing medium in a collection tank after the spray cleaning;

f) providing an analysis filter positioned on an outflow side of the collection tank, whereby the contaminant-particles-containing flushing medium flows through the analysis filter, wherein contaminant particles are filtered out of the contaminant-particles-containing flushing medium by the analysis filter; and

g) analyzing the contaminant particles filtered out by the analysis filter.

21. (New) The method as recited in Claim 20, wherein the pressure of the compressed air in step b) is one of regulated and set to a selected value.

22. (New) The method as recited in Claim 21, wherein the flushing medium transmitted to the spray lance in step c) is pre-filtered through a pre-filter.

23. (New) The method as recited in Claim 22, wherein the spray lance used in step d) is configured to be exchangeable as a function of the component geometry.

24. (New) The method as recited in Claim 20, wherein for step f), a vacuum pump situated downstream of the analysis filter on the outflow side of the collection tank is provided to aid the contaminant-particles-containing flushing medium to flow through the analysis filter.

25. (New) The method as recited in Claim 20, wherein the analyzing in step g) is performed by one of optical microscopy and scanning-electron microscopy.